

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/11366

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C11D1/88 C11D1/90 C11D1/92 C11D3/02 C07C231/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C11D C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 95 14076 A (ALBRIGHT & WILSON) 26 May 1995 (1995-05-26) claims example 1 page 16, paragraph 2 - paragraph 3 page 15, paragraph 4 - paragraph 6	11 1-10
X A	WO 93 25650 A (HENKEL CORP) 23 December 1993 (1993-12-23) claims 1-7, 20-22, 27-30, 33, 34, 48 examples page 15, line 18 - line 28 page 17, line 3 - line 23	11 1-10
A	WO 99 27048 A (COLGATE PALMOLIVE CO) 3 June 1999 (1999-06-03) claims 1-4, 6-9, 12-19 examples	1-11
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*S\* document member of the same patent family

Date of the actual completion of the international search

4 February 2004

Date of mailing of the international search report

13/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Neys, P

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/11366

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 656 346 A (WITCO SURFACTANTS GMBH) 7 June 1995 (1995-06-07) claims examples -----	1-11

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/11366

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9514076	A	26-05-1995	AU 678312 B2	22-05-1997
			AU 8107494 A	06-06-1995
			CA 2153900 A1	26-05-1995
			CN 1117741 A	28-02-1996
			WO 9514076 A1	26-05-1995
			EP 0679180 A1	02-11-1995
			GB 2284215 A ,B	31-05-1995
			HK 1005778 A1	22-01-1999
			JP 8505900 T	25-06-1996
			NZ 275820 A	24-11-1997
			PL 309892 A1	13-11-1995
WO 9325650	A	23-12-1993	AU 4408893 A	04-01-1994
			CA 2135641 A1	23-12-1993
			EP 0647262 A1	12-04-1995
			JP 7507833 T	31-08-1995
			MX 9303569 A1	29-04-1994
			WO 9325650 A1	23-12-1993
			US 6087320 A	11-07-2000
WO 9927048	A	03-06-1999	US 5877143 A	02-03-1999
			AU 1593999 A	15-06-1999
			BR 9814226 A	03-10-2000
			CA 2310404 A1	03-06-1999
			EP 1032628 A1	06-09-2000
			HU 0004356 A2	28-04-2001
			JP 2001524583 T	04-12-2001
			NO 20002578 A	19-07-2000
			NZ 504579 A	25-07-2003
			PL 340548 A1	12-02-2001
			TR 200002175 T2	21-12-2000
			WO 9927048 A1	03-06-1999
EP 0656346	A	07-06-1995	EP 0656346 A1	07-06-1995
			DE 59305412 D1	20-03-1997
			ES 2099888 T3	01-06-1997

---

**THIS PAGE BLANK (USPTO)**